AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (original) A method for making a rubber composition comprising:

forming a mixture by combining an uncured or partially cured elastomeric material, a curing agent that reacts with the elastomeric material, and a reactive oligomer;

heating the mixture at a temperature and for a time sufficient to effect vulcanization of the elastomeric material and polymerization of the reactive oligomer, wherein mechanical energy is applied to mix the mixture during the heating step; wherein the reactive oligomer comprises a compound that polymerizes to form a thermoplastic polymer matrix of the composition.

- 2. (original) A method according to claim 1, wherein the elastomeric material comprises a fluorocarbon elastomer.
- 3. (withdrawn) A method according to claim 1, wherein the elastomeric material comprises a diene rubber.
- 4. (withdrawn) A method according to claim 1, wherein the elastomeric material comprises a silicone rubber.
- 5. (withdrawn) A method according to claim 1, wherein the elastomeric material comprises an ethylene propylene rubber.

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6. (original) A method according to claim 2, wherein the fluorocarbon elastomer is selected from the group consisting of:

VDF/HFP,

VDF/HFP/TFE,

VDF/PFVE/TFE,

TFE/Pr,

TFE/Pr/VDF,

TFE/Et/PFVE/VDF,

TFE/Et/PFVE, and

TFE/PFVE.

- 7. (original) A method according to claim 6, wherein the fluorocarbon elastomer also comprises cure site monomers.
- 8. (original) A method according to claim 2, wherein the curing agent comprises a polyol.
- 9. (original) A method according to claim 2, wherein the curing agent comprises a peroxide.
- 10. (withdrawn) A method according to claim 3, wherein the curing agent comprises sulfur.
- 11. (original) A method according to claim 1, wherein the oligomer polymerizes to form a thermoplastic polyester.
- 12. (original) A method according to claim 11, wherein the oligomer polymerizes to form polybutylene terephthalate.

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13. (original) A method according to claim 11, wherein the oligomer is made by a process comprising combining a polyester linear and a depolymerization catalyst in an organic solvent, wherein the depolymerization catalyst comprises a tin compound or a titanium compound, and wherein the polyester linear is described by the formula

wherein m is from 2 to 10, n is from about 20 to about 500, and A is a divalent radical selected from the group consisting of alkylene, monocyclic aromatic, and polycyclic aromatic.

- 14. (original) A method according to claim 11, wherein the oligomer is a macrocyclic polyester oligomer.
- 15. (withdrawn) A method according to claim 1, wherein the oligomer polymerizes to form a thermoplastic polyamide.
 - 16. (original) A method according to claim 1, comprising a continuous process.
 - 17. (original) A method according to claim 16, carried out in a twin screw extruder.
 - 18. (original) A method according to claim 1, comprising a batch process.

19. (withdrawn - currently amended) A method for making a processable rubber composition according to claim 1, comprising

forming a mixture of an-the uncured or partially cured elastomer material and-a the reactive oligomer; and

simultaneously curing the elastomeric material and polymerizing the oligomer in the mixture;

wherein the oligomer polymerizes to form a thermoplastic material by ring opening or condensation polymerization.

- 20. (withdrawn) A method according to claim 19, wherein the oligomer does not react with the elastomer.
- 21. (withdrawn) A method according to claim 19, wherein the elastomeric material comprises a fluorocarbon elastomer.
- 22. (withdrawn) A method according to claim 21, comprising curing the fluorocarbon elastomer with a phenolic curing agent.
- 23. (withdrawn) A method according to claim 21, comprising curing the fluorocarbon elastomer with a peroxide curing system.
- 24. (withdrawn) A method according to claim 19, wherein the oligomer polymerizes to form a thermoplastic polyester.
- 25. (withdrawn) A method according to claim 19, wherein the oligomer polymerizes to form polybutylene terephthalate.

26. (withdrawn - currently amended) A method of making a processable rubber composition according to claim 1, comprising

combining <u>a the partially cured</u> or uncured elastomeric material, <u>a the curing</u> agent that reacts with the elastomeric material, and <u>a the reactive oligomer</u>;

mixing the combination to form a homogeneous blend; and

heating the blend while mixing to effect cure of the elastomeric material and polymerization of the oligomer;

wherein the oligomer comprises a macrocyclic polyester oligomer.

- 27. (withdrawn) A method according to claim 26, wherein the elastomeric material comprises a fluorocarbon elastomer.
- 28. (withdrawn) A method according to claim 26, wherein the elastomeric material comprises a diene rubber.
- 29. (withdrawn) A method according to claim 26, wherein the oligomer is prepared by depolymerizing polybutylene terephthalate in an organic solvent in the presence of a tin compound or a titanium compound.
- 30. (withdrawn) A method according to claim 27, wherein the fluorocarbon elastomer comprises repeating units derived from tetrafluoroethylene and propylene.
- 31. (withdrawn) A method according to claim 27, wherein the fluorocarbon elastomer comprises repeating units derived from vinylidene fluoride and hexafluoropropylene.
 - 32. (withdrawn) A method according to claim 26, comprising a continuous process.
 - 33. (withdrawn) A method according to claim 26, carried out in a twin screw extruder.
 - 34. (withdrawn) A method according to claim 26, comprising a batch process.

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